CLAIMS

I claim:

1. A method of processing an information resource, the method comprising:

5   receiving a copy of the information resource from a remote source, and

caching the copy of the information resource in dependence upon a semantic type associated with the information resource.

2. The method of claim 1, wherein

10   the caching of the copy comprises at least one of: a static caching, an active caching, and a percolating caching.

3. The method of claim 1, further including:

receiving a request from a user, and

15   determining the semantic type based on the request from the user.

4. The method of claim 3, wherein

the determining of the semantic type includes at least one of:

determining a context of the request,

20   determining a prior request from the user,

determining a profile of the user, and

determining a response from the user to a result of a prior request.

5. The method of claim 1, further including:

25   determining the semantic type based on an information content of the resource.

6. The method of claim 1, wherein

the remote source comprises an Internet site.

7. A method of enabling interaction with an information resource, the method comprising:

enabling receiving a copy of the information from the information resource, and

enabling caching the copy according to a caching strategy dependent on a semantic type of the information.

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8. The method of claim 7, wherein:

the enabling of the caching comprises supplying an indication representative of the semantic type.

10   9. The method of claim 7, wherein the information resource comprises an Internet Web site.

10. A method of processing an information resource copy, comprising:

determining at least one parameter associated with a semantic type of the resource copy, and

15   processing the resource copy in dependence upon the at least one parameter associated with the semantic type of the resource copy.

11. The method of claim 10, wherein

the at least one parameter associated with the semantic type of the resource copy comprises a threshold for a time duration, and

20   the method further comprises:

precluding the retrieval of the resource copy if the time duration of the resource exceeds the threshold.

25   12. An information processing system comprising:

a processor that receives a request from a user for an information resource,

a retriever, operably coupled to the processor, that facilitates a reception of a copy of the resource from a remote site, and

a cache system, operably coupled to the request processor, that facilitates a storage and a retrieval of the copy of the resource, the cache system comprising:

a cache memory for storing the copy, and

a cache controller operably coupled to the cache memory for control of the storage and retrieval of the copy in the cache memory in dependence upon a semantic type of the resource.

13. The system of claim 12, wherein

the cache memory comprises a plurality of cache sections, and

the cache controller selectively accesses a specific one of the cache sections in dependence upon the semantic type of the resource.

14. The system of claim 12, further including

a semantic classifier, operably coupled to the request processor, that determines the semantic type of the resource.

15. The system of claim 14, wherein

the semantic classifier determines the semantic type based on at least one of: a context of the user, a prior request of the user, a profile of the user, and a response from the user to a result of a previous request from the user.

16. The system of claim 14, wherein

the semantic classifier determines the semantic type of the resource based on a material content of the resource.

17. A database comprising:

a plurality of indexes corresponding to a plurality of information resources, and

a plurality of default semantic types corresponding to the plurality of information resources that facilitates a caching of each information resource of the plurality of information resources based on the default semantic type of each information resource.

5   18. The database of claim 17, wherein the plurality of information resources includes an Internet Web site.

19. The database of claim 17, wherein the plurality of information resources includes resources that are available via an Internet service provider.

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20. A Web page comprising:

        an information resource, and

        an identification of a semantic type associated with the information resource for controlling an automatic processing of the Web page.